PATENT COOPERATION TREATY



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference FWA3-19	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)				
International application No. PCT/JP2003/009027	International filing date 16 July 2003 (Priority date (day/month/year) 17 July 2002 (17.07.2002)		
International Patent Classification (IPC) or n D01F 9/133, C01B 31/02					
Applicant BUSSAN NANOTECH RESEARCH INSTITUTE INC.					
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 					
2. This REPORT consists of a total of 3 sheets, including this cover sheet.					
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).					
These annexes consist of a total of sheets.					
3. This report contains indications relating to the following items:					
I Basis of the report					
II Priority					
Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
Lack of unity of invention					
V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
VI Certain documents cited					
VII Certain defects in the international application					
VIII Certain observations on the international application					
Date of submission of the demand		Date of completion	of this report		
21 November 2003 (21.11.2003)		24	August 2004 (24.08.2004)		
Name and mailing address of the IPEA/JI		Authorized officer			
Facsimile No.		Telephone No.			

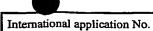
Translation

International application No.

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PCT/JP2003/009027

L Basis of the report 1. With regard to the elements of the international application:* the international application as originally filed the description: , as originally filed pages , filed with the demand pages , filed with the letter of pages the claims: , as originally filed pages , as amended (together with any statement under Article 19 pages , filed with the demand pages , filed with the letter of pages the drawings: , as originally filed pages , filed with the demand pages _____, filed with the letter of _____ the sequence listing part of the description: __, as originally filed pages ____, filed with the demand pages ____, filed with the letter of pages 2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language ____ which is: the language of a translation furnished for the purposes of international search (under Rule 23.1(b)). the language of publication of the international application (under Rule 48.3(b)). the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/ or 55.3). 3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing: contained in the international application in written form. filed together with the international application in computer readable form. furnished subsequently to this Authority in written form. furnished subsequently to this Authority in computer readable form. The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished. The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished. The amendments have resulted in the cancellation of: the description, pages _ the claims, Nos. ___ the drawings, sheets/fig This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).** * Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 and 70.17). ** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

PCT/JP03/09027

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Novelty (N)	Claims	1-11	YES
	Claims		NO
Inventive step (IS)	Claims	1-11	YES
	Claims	·	. NO
Industrial applicability (IA)	Claims	1-11	YE:
	Claims		NO

2. Citations and explanations

Claims 1, 2

None of the documents describes providing a post-reaction gas cooling device, second fine carbon fiber separation and recovery device, and gas recycling device; the subject matter of these claims is novel. Also, the post-reaction gas cooling device condenses and separates condensing components and unreacted raw material and the like, such as water produced by the reaction in the gas, and thus achieves the effect of preventing clogging of the pipes, so it involves an inventive step. Claims 3-11

The inventions of these claims cite the aforesaid claims 1 and 2, and pertain to a method for producing fine carbon fiber with additional technical limitations, so like claims 1 and 2 they are novel and involve an inventive step.